

KENWOOD

NX-5800SA

UHF DIGITAL TRANSCEIVER

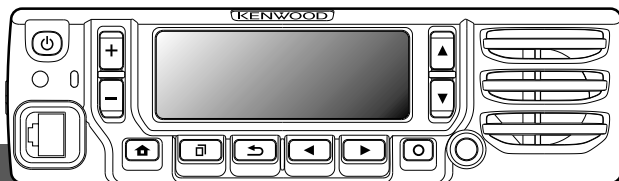
USER GUIDE

This User Guide covers only the basic operations of your radio. Ask your dealer for information on any customized features they may have added to your radio. For using details instruction manual (User Manual), refer to the following URL.

http://manual.kenwood.com/en_contents/search/keyword



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JVCKENWOOD Corporation

B5A-1193-00 (M)



THANK YOU

We are grateful you have chosen **KENWOOD** for your Digital Transceiver applications.

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NOTICES TO THE USER

- Government law prohibits the operation of unlicensed radio transmitters within the territories under government control.
- Illegal operation is punishable by fine and/or imprisonment.
- Refer service to qualified technicians only.

Safety: It is important that the operator is aware of, and understands, hazards common to the operation of any transceiver.



WARNING

- **EXPLOSIVE ATMOSPHERES (GASES, DUST, FUMES, etc.)**
Turn OFF your transceiver while taking on fuel or while parked in gasoline service stations. Do not carry spare fuel containers in the trunk of your vehicle if your transceiver is mounted in the trunk area.
- **INJURY FROM RADIO FREQUENCY TRANSMISSIONS**
Do not operate your transceiver when somebody is either standing near to or touching the antenna, to avoid the possibility of radio frequency burns or related physical injury.
- **DYNAMITE BLASTING CAPS**
Operating the transceiver within 500 feet (150 m) of dynamite blasting caps may cause them to explode. Turn OFF your transceiver when in an area where blasting is in progress, or where "TURN OFF TWO-WAY RADIO" signs have been posted. If you are transporting blasting caps in your vehicle, make sure they are carried in a closed metal box with a padded interior. Do not transmit while the caps are being placed into or removed from the container.

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Firmware Copyrights

The title to and ownership of copyrights for firmware embedded in KENWOOD product memories are reserved for JVC KENWOOD Corporation.

PRECAUTIONS

Observe the following precautions to prevent fire, personal injury, and transceiver damage.

- Do not attempt to configure the transceiver while driving; it is too dangerous.
- Do not disassemble or modify the transceiver for any reason.
- Do not expose the transceiver to long periods of direct sunlight, nor place it near heating appliances.
- If an abnormal odor or smoke is detected coming from the transceiver, switch the transceiver power off immediately, and contact your **KENWOOD** dealer.
- Use of the transceiver while you are driving may be against traffic laws. Please check and observe the vehicle regulations in your area.
- Do not use options not specified by **KENWOOD**.
- Do not put the plastic bag used for packing of this equipment on the place which reaches a small child's hand. It will become a cause of suffocation if it wears flatly.
- Do not place the transceiver on unstable surfaces.
- Keep the volume as low as possible to protect your hearing.
- Always switch the transceiver power off before installing optional accessories.
- To dispose of batteries, be sure to comply with the laws and regulations in your country or region.



CAUTION

- The transceiver operates in 12 V negative ground systems only! Check the battery polarity and voltage of the vehicle before installing the transceiver.
- Use only the supplied DC power cable or a **KENWOOD** optional DC power cable.
- Do not cut and/or remove the fuse holder on the DC power cable.
- Do not place the microphone cable around your neck while near machinery that may catch the cable.



WARNING

For passenger safety, install the transceiver securely using the supplied mounting bracket and screw set so the transceiver will not break loose in the event of a collision.

When using the Transceiver, refer to the "NOTICES TO THE USER" and "PRECAUTIONS". If the warnings are not observed, there may be the possibility to have any malfunction. In this case, press and hold the Power Switch for 5 seconds or more. If the malfunction persists, ask your dealer.

UNPACKING AND CHECKING EQUIPMENT

Note:

- The following instructions are for use by your **KENWOOD** dealer, an authorized **KENWOOD** service facility, or the factory.

Carefully unpack the transceiver. We recommend that you identify the items listed below before discarding the packing material. If any items are missing or have been damaged during shipment, file a claim with the carrier immediately.

SUPPLIED ACCESSORIES

DC power cable (with fuses)	1
• 15 A fuse.	2
Mounting bracket.	1
Screw set	
• 5 x 16 mm self-tapping screw	4
• M4 x 6 mm hex-headed screw with washer	4
• Spring washer.	4
• Flat washer	4
User guide.	1

PREPARATION



WARNING

Various electronic equipment in your vehicle may malfunction if they are not properly protected from the radio frequency energy which is present while transmitting. Typical examples include electronic fuel injection, anti-skid braking, and cruise control. If your vehicle contains such equipment, consult the dealer for the make of vehicle and enlist his/her aid in determining if they will perform normally while transmitting.

■ Connecting the power cable



CAUTION

The transceiver operates in 12 V negative ground systems only! Check the battery polarity and voltage of the vehicle before installing the transceiver.

- 1 Check for an existing hole, conveniently located in the firewall, where the power cable can be passed through.
 - If no hole exists, use a circle cutter to drill a hole, then install a rubber grommet.
- 2 Run the power cable through the firewall and into the engine compartment.
- 3 Connect the red lead to the positive (+) battery terminal and the black lead to the negative (–) battery terminal.
 - Place the fuse as close to the battery as possible.
- 4 Coil the surplus cable and secure it with a retaining band.
 - Be sure to leave enough slack in the cables so the transceiver can be removed for servicing while keeping the power applied.

■ Installing the Transceiver



WARNING

For passenger safety, install the transceiver securely using the supplied mounting bracket and screw set, so the transceiver will not break loose in the event of a collision.

Note:

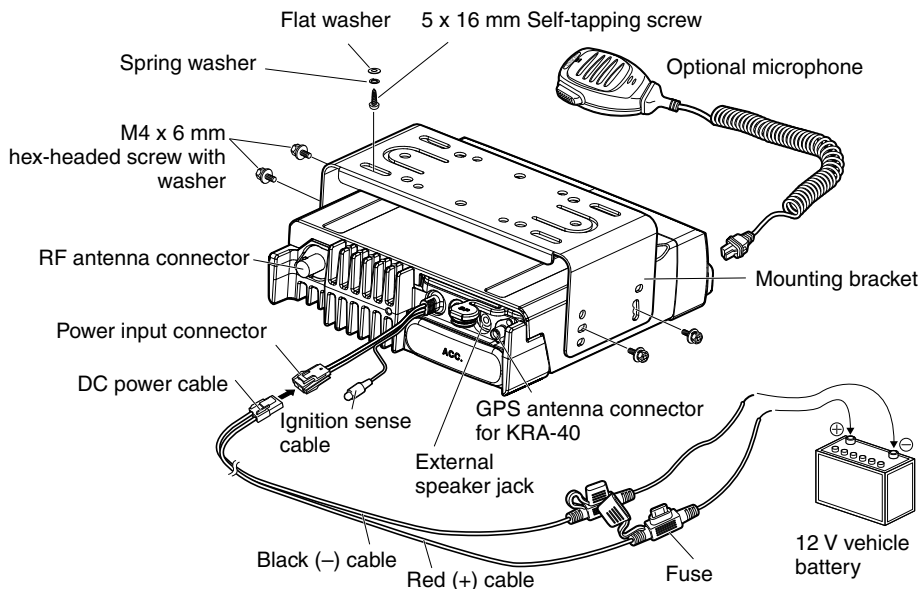
- Before installing the transceiver, check how far the mounting screws will extend below the surface. When drilling mounting holes, be careful not to damage vehicle wiring or parts.
- 1 Mark the position of the holes in the dash, using the mounting bracket as a template. Using a 4.2 mm (5/32 inch) drill bit, drill the holes, then attach the mounting bracket using the supplied screws.
 - Mount the transceiver within easy reach of the user and where there is sufficient space at the rear of the transceiver for cable connections.
 - 2 Connect the antenna and the supplied power cable to the transceiver.
 - 3 Slide the transceiver into the mounting bracket and secure it using the supplied hex-headed screws.

- 4 Mount the microphone hanger in a location where it will be within easy reach of the user.
- The microphone and microphone cable should be mounted in a place where they will not interfere with the safe operation of the vehicle.



CAUTION

When replacing the fuse in the DC power cable, be sure to replace it with a fuse of the same value. Never replace a fuse with one that is rated with a higher value.



■ Using the microSD memory card

To install a microSD memory card on this transceiver, please consult your dealer.

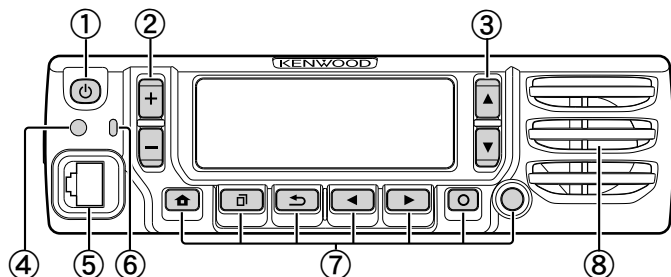
- microSD memory cards (Class 2 or higher) and microSDHC memory cards (Class 2 or higher) can be used.
- SDXC memory cards cannot be used.
- This transceiver is not guaranteed to operate with all microSD memory cards. (Operations are confirmed on memory cards for the following brands: SanDisk, TOSHIBA and Panasonic.)

Compensation Disclaimer

Data stored on the microSD memory card may be altered or lost due to problems with this transceiver. We do not accept liability in respect of the data stored on your microSD memory card, failure to save the data properly, loss of data, and any direct or indirect damages.

ORIENTATION

OPERATION PANEL (ATTACHED PANEL OR KCH-19)



① **[⏻] (Power) switch**

Press to switch the transceiver ON or OFF.

② **[+] / [-] keys**

Press to activate its programmable function. The default key setting is **[Volume Up]/ [Volume Down]**.

③ **[▲] / [▼] keys**

Press to activate its programmable function. The default key setting is **[Channel Up]/ [Channel Down]**.

④ **Illumination sensor**

Sensor for Auto Dimmer Function.

⑤ **Microphone jack**

Insert the microphone plug into this jack.

⑥ **TX/RX Indicator**

The indicator lights in different colors to indicate the current status of the transceiver.

Lights red while transmitting and green while receiving.

⑦ **[⏏] / [≡] / [↵] / [◀] / [▶] / [O] / Auxiliary (orange) keys**

Press to activate their programmable functions.

[⏏] : The default key setting is **[Clear]**.

[≡] : The default key setting is **[Menu]**.

[↵] : The default key setting is **[Squelch Off Momentary]**.

[◀] : The default key setting is **[Zone Down]**.

[▶] : The default key setting is **[Zone Up]**.

[O] : The default key setting is **[Function]**.

Auxiliary (orange) : The default key setting is **[None]**.

⑧ **Speaker**

Internal speaker.

For details on programming functions to the keys on your transceiver, please contact your dealer or refer to the "User Manual" available from the following URL.

http://manual.kenwood.com/en_contents/search/keyword



DISPLAY

















Basic Frame



















Display Area	Description
Function Indicator Area	Displays the various function indicators, signal strength indicator and clock.
Main Area	Display the information of the transceiver such as Channel number and Zone number.
Key Guide Area	Display the key functions for [F], [S], [L] and [R] keys.

Function Indicator

Indicator	Description
	Displays the signal strength.
	The channel is using high transmit power.
	The channel is using medium transmit power.
	The channel is using low transmit power.
	In Digital mode (Digital Channel)
	In Analog mode (Analog Channel)
	In Digital mode (Mixed Channel)
	In Analog mode (Mixed Channel)
	The Bluetooth function is activated. Blinks in the process of turning on Bluetooth.
	Connected to Bluetooth device.
	The GPS position is determined. Blinks when the GPS is unable to determine the position.

Indicator	Description
	Non-priority Scan or Voting/Site Roaming is in progress. Blinks when the scan is paused. (green icon)
	Priority Scan is in progress. Blinks when the scan is paused. (red icon)
F₁	Indicates Priority channel 1 or Priority Monitor ID 1.
F₂	Indicates Priority channel 2 or Priority Monitor ID 2.
F₃	Indicates Priority Monitor ID 3.
F₄	Indicates Priority Monitor ID 4.
	The current channel is added to the scanning sequence.
	The current Zone is added to the Multi-Zone scanning sequence.
	The Scrambler function is activated.
	The Encryption function is activated. Blinks when receiving an encrypted carrier.
	The Encryption (AES) function is activated. Blinks when receiving an encrypted carrier.
	The Encryption (DES) function is activated. Blinks when receiving an encrypted carrier.
	The Talk Around function is activated.
	The Monitor or Squelch Off is activated.
	The External Speaker is activated.
	The External Speaker (Internal + External) is activated.
NR	The Noise Reduction function is activated. Blinks when Noise Reduction is functioning.
	Blinks when an incoming call matches your Optional Signaling.
	A message is stored in the memory. Blinks when a new message is received.
	The microSD memory card is recognized.
	The microSD memory card is not recognized.
	The VOX function is activated.

Indicator	Description
	The Site Lock function is activated.
	The Broadcast Call function is activated.
	The Surveillance function is activated.
	The selected group is programmed as telephone IDs. Blinks during Auto Telephone search.
	The Tactical Zone is activated.
	The Horn Alert function is activated.
	The Public Address function is activated.
	The Intercom function is activated.
	AUX A is activated.
	AUX B is activated.
	AUX C is activated.
	The Lone Worker function is activated.
	The Comander function is activated.
	The Operator Selectable Tone function is activated.
	Blinks during Auto Recording.
	The Key Lock function is activated.

BASIC OPERATION

SWITCHING POWER ON/ OFF

Press [⏻] to switch the transceiver ON.

Press [⏻] again to switch the transceiver OFF.

ADJUSTING THE VOLUME

Press the key programmed as [Volume Up] to increase the volume. Press the key programmed as [Volume Down] to decrease the volume.

SELECTING A ZONE AND CHANNEL

Select the desired zone and channel using the keys programmed as [Zone Up]/ [Zone Down] and [Channel Up]/ [Channel Down].

- The transceivers may have names programmed for zones and channels. The zone name and channel name can contain up to 16 and 14 characters respectively. While selecting a zone, the zone name will appear above the channel name.
- If programmed by your dealer, your transceiver will announce the zone and channel numbers as you change them.

TRANSMITTING

- 1 Select the desired zone and channel.
- 2 Press the **PTT** switch and speak into the microphone. Release the **PTT** switch to receive.
 - The LED indicator lights red while transmitting and green while receiving a signal. This indicator can also be disabled by your dealer.
 - For best sound quality at the receiving station, hold the microphone approximately 1.5 inches (3 cm to 4 cm) from your mouth.

RECEIVING

Select the desired zone and channel. If signaling has been programmed on the selected channel, you will hear a call only if the received signal matches your transceiver settings.

INFORMATION ON SOFTWARE LICENSE

This unit uses a software based on the license below.

***zlib LICENSE**

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```
printf("%s",png_get_copyright(NULL));
```

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Glenn Randers-Pehrson

glennrp at users.sourceforge.net

December 19, 2013

***Md5**

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KENWOOD

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